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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8838 (1978): Forceps, Cup, Straight, Microlaryngel
Surgery [MHD 4: Ear, Nose and Throat Surgery Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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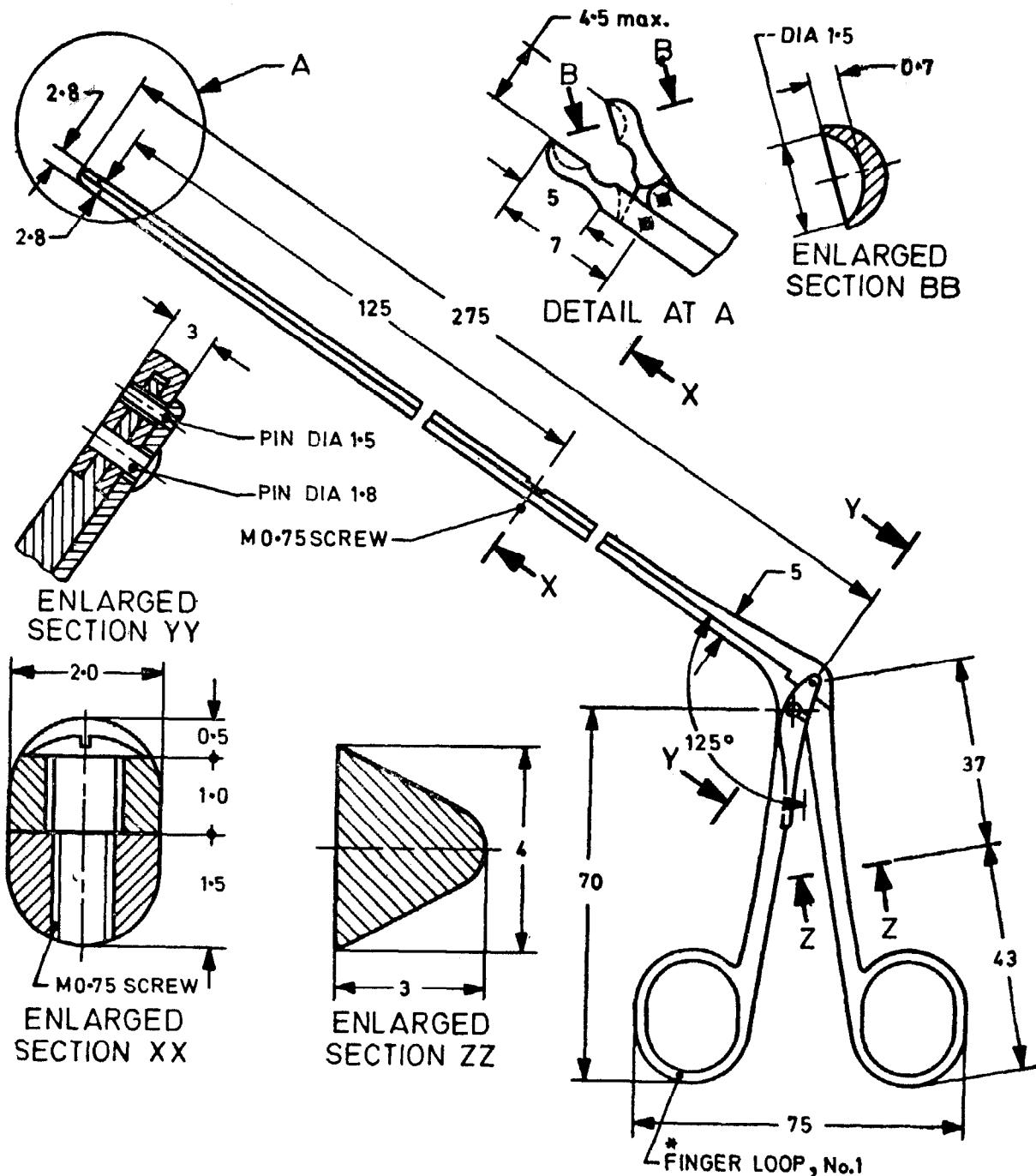


Indian Standard

SPECIFICATION FOR FORCEPS, CUP, STRAIGHT, MICROLARYNGEAL SURGERY

1. Scope — Covers dimensional and other requirements for straight cup forceps for cutting and removing specimens used in microlaryngeal ENT surgery.

2. Shape and Dimensions — As shown in Fig. 1.



*See IS : 3642-1966 'General requirements for surgical instruments'.

All dimensions in millimetres.

FIG. 1 FORCEPS, CUP, STRAIGHT, MICROLARYNGEAL SURGERY

2.1 A deviation ± 2.5 percent shall be allowed on all dimensions.

2.2 A deviation of $\pm 2.5^\circ$ shall be allowed on all angles.

3. Material — The forceps shall be made of stainless steel conforming to Designation 40Cr13 of IS:6603-1972 'Specification for stainless steel bars and flats'.

4. Workmanship and Finish

4.1 The forceps shall be free from scales, cracks, burrs, pits, tool marks and other surface defects.

4.2 All the edges shall be smoothly rounded off except the working ends which shall be semi-sharp.

4.3 The jaws shall open and close fully and freely without any stiffness.

4.4 The forceps shall be dull matt finished and passivated.

4.5 The maximum opening of the upper jaw shall correspond to the maximum opening of the finger loops, that is when the finger loops are opened to their maximum position, the upper jaw shall not move further.

5. Heat Treatment — The forceps shall be hardened and tempered to give a hardness of 540 to 640 HV.

6. Tests

6.1 Flexibility — The flexibility shall be tested in the following manner.

6.1.1 The jaws shall be made to bite a piece of sponge rubber about 0.5 mm thick and the finger loops closed as fully as possible. The cutting edge shall be examined under a magnification of 10 \times along the plane of the cutting edges for feathers, nicks, waviness, etc. On release, the forceps shall not show any sign of damage or the upper jaw shall not become loose at its hinges.

6.1.2 A force of moderate degree shall be applied by the fingers to the shank attempting to bend the shank on the width. This shall be repeated at several points along the shank. The test shall then be repeated in a plane at right angle to the first. On completion of the test the shank shall not have acquired permanent set.

6.2 Corrosion Resistance — The forceps shall satisfy the boiling and autoclaving test conforming to IS: 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. The joints of the forceps shall be free from rust.

7. Marking — The forceps shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark, and the country of manufacture.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The forceps shall be wrapped in moisture-proof paper or packed in polyethylene bags. Each forceps shall then be packed in individual cartons. The forceps may also be packed as agreed to between the purchaser and the supplier.